



PX Series Print Module

Made in Germany

PX print modules

Our goals are:

Perfect function, high reliability, easy to handle operation and less maintenance downtime.

The PX print module is designed especially for the fully automatic print and apply operation in the industrial use. It can be integrated in each orientation and used for complex labeling applications.

A solid cast aluminum design is base for the assembly of all components of the printing mechanics. A food safe coating and stainless steel covers make the PX print module perfect with outstanding features. It is bolt compatible with competitive print modules.



The Universal

The industrial module for precise printing.

1.1	Print module	PX4			PX 4.3*		
	Print resolution dpi	203	300	600	203	300	
	Print width up to mm	104	105,6	105,6	104	108,4	
	Print speed up to mm/s	300	250	100	250	250	

*4.3 preferably for thermal direct printing.



The Wide

Focused on Odette and UCC labels.

1.2 Print module	PX6	
Print resolution dpi	203	300
Print width up to mm	168	162,6
Print speed up to mm/s	200	200

Label peeling direction

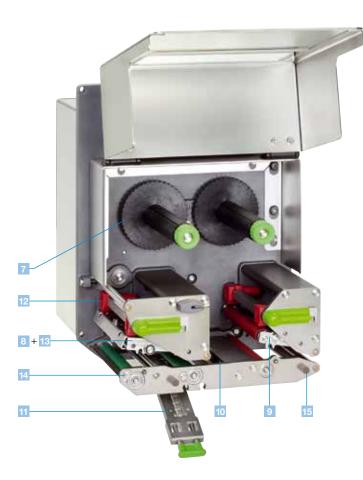




All PX print modules are available in right and left hand versions and different resolutions.

Technical details





Big graphic display

White backlight for optimum readability.

Navigator pad

With illuminated lettering for interactive menu navigation.

CF memory card

Slot for CF memory card for storage of label formats, fonts, texts, graphics, programs or databases.

4 USB slot

Additional USB slot for service keys, keyboard, scanner or USB memory.

5 Power switch

Attached to the front for easier handling.

Solid metal cover

Made of die-cast aluminum with antibacterial coating. All casings are made of stainless steel.

Ribbon rewinder and unwinder

The three-part tightening axles enable fast and easy ribbon exchange. Narrow ribbons can be fixed in any position.

Ribbon saver

Used for labels that are only to be partially printed. During label feed the printhead is lifted in the blank area and the ribbon is stopped.

Back-feed

Once a label has been dispensed, the next one can be fed back behind the print line to ensure it can be printed right to the edge and to prevent the liner from leaking adhesive during a longer pause. With very sensitive materials and to avoid ribbon folds, the printhead can be raised during this process.

10 Label sensor

The gap or reflective sensor ensures the label is positioned precisely and identifies the end of the material – independent of gaps.

Simple material replacement

The label material is inserted edgewise up to the end position. The printhead and pressure roller are locked with locking levers.

Adjustment of the print layout

The pressure can be adjusted easily by moving the plungers.

Fast printhead exchange

The printhead can be exchanged and adjusted easily using the Allen key, which is ready to hand at the machine.

14 Removing the print roller

The print roller can be easily removed for cleaning or replacement.

15 Cover magnet

In overhead installation, the cover is held by two magnets.

Technical data

■ Standard □ Option ○ Authorized distribution by resellers

			PX4	I.3 ²⁾	P	X6	
	PX4 PX					1 XU	
		Thermal tr	ansfer / Ther	mal direct			
203	300	600	203	300	203	300	
						200	
104	105,6	105,6	104	108,4	108	162,6	
				-T DE DD DI	D) (O D) A		
Paper,	cardboard				PVC, PU, A	crylat	
			6 - 0,35 / 60 -	160			
						- 174	
						- 178	
6	6	6	6	6		12	
12	12	12	12	12	25	25	
5000	4000	1000	5000	4000	4000	3000	
		Oı	ıtside or insic	le			
			86				
			25				
			600				
			114			165	
Fo	r leading	adae of the lahe	l or punching	marks and on	d of matoria	ı	
+	i icauli ly t				a oi iilaleila		
		ΓO		10			
			4 - 60				
			000				
scanner or servic	e key, US	B flash drive					
		100 - 240 V ~	50 / 60 Hz. P	FC			
				-			
			10 - 85% not	condensing			
¥							
		oL, i oo dass	л, ов, ооо	, UL			
		augo Foot Ot	2001 Marin 5	Intor 1 v O) r		
			ьи x 40				
Digital or analo		Print param		Interfaces	Tim		
System setting	js	24 language	settings	Security	Dat	е	
End of ribbon							
End of label	2						
End of label Printhead oper		Llood reserve		Clost	lance 1	outfor.	
End of label	1	Used memory Temperature o		Clock Date sheet	Input k Remai		
	300 104 Paper, 6 6 12 5000	300 250 104 105,6 Paper, cardboard 6 6 12 12 5000 4000 For leading of the second of	300 250 100 104 105,6 105,6 Paper, cardboard, textiles, plastic 0,055 10 - 116 25 - 120 6 6 6 6 12 12 12 12 5000 4000 1000 For leading edge of the laber Por leading edge of the laber Por leading edge of the laber P	300 250 100 250 104 105,6 104 105,6 105,6 104 105,6 105,6 104 105,6 105,6 104 104 105,6 105,6 104 104 105,6 105,6 104 104 105,6 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 105,6 104 104 104 105,6 104 104 104 105,6 104 104 104 105,6 104 104 104 105,6 104 104 104 105,6 104 104 104 104 105,6 104 104 104 104 105,6 104 104 104 104 104 104 104 104 104 104	300 250 100 250 250 104 108,4 Paper, cardboard, textiles, plastics such as PET, PE, PP, PI, 0,055 - 0,35 / 60 - 160 10 - 116 25 - 120 6 6 6 6 6 6 6 6 6 6 6 6 12 12 12 12 12 12 12 5000 4000 1000 5000 4000 Outside or inside 86 25 600 114	300 250 100 250 250 200 104 105,6 105,6 104 108,4 168 Paper, cardboard, textiles, plastics such as PET, PE, PP, PI, PVC, PU, A 0,055 - 0,35 / 60 - 160 10 - 116 50 25 - 120 500 6 6 6 6 6 6 6 12 12 12 12 12 12 12 25 5000 4000 1000 5000 4000 4000 Outside or inside 86 25 600 114 □ For leading edge of the label or punching marks and end of materia For printing marks 4 - 60 266 64 8 8 ■ □ □ scanner or service key, USB flash drive □ □ scanner or service key, USB flash drive □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ scanner or service key, USB flash drive □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ scanner or service key, USB flash drive □ □ □ sca	

¹⁾ Limitations may apply to small labels, thin materials or strong adhesives. Critical materials or applications must be tested and approved.

²⁾ Preferred for thermal direct printing.
³⁾ The ribbon should be roughly the same width as the label in order to avoid folding.

Technical data

Test routines				
System diagnosis	When switched on, incl. printhead testing			
Short status, status print	Font list, device list, WLAN status, profile of label, test grid, monitor mode, PPP status			
Status reports	- Extensive status printout with information about setting, e.g. print length counter, runtime counter - Request of machine status via software command - Detailed status messages on the display, e.g. network error, no link, barcode error, etc			
Fonts				
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Thai and Chinese (simplified Chinese) available as options.			
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic characters are supported. Thai and Chinese available as options.			
Bitmap fonts	Size of width and height 1 – 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°			
Vector / TrueType fonts	Size of width and height 0.9 – 128 mm Variable zoom, Orientation 360° in steps of 1°			
Font formats	Bold, italic, underlined, outline, negative, vertical, depending on character fonts			
Font width	Variable			
Graphics				
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading			
Grafikformate	PCX, IMG, BMP, TIF, MAC, GIF, PNG			

Barcodes					
Linear barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC	Interleaved 2 / 5 Ident- u. Leitcode der Deutschen Post AG Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0			
2D codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and				
	ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on code type.				
Software					
Programming	J-Script direct programming abc-Basic Compiler Database Connector SAP Replace method				
System diagnosis / Printer monitoring with Intra- and Internet with web interface Network Manager					
Label software	cablabel® S3 Lite cablabel® S3 Viewer cablabel® S3 Pro				
Windows driver 32 / 64 bit certified for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019			
Mac driver	OS X printer driver from	version 10.6 ■			
Linux driver	on 1.2				
Stand-alone- operation					

Interfaces



- 1 RS232C interface
- USB 2.0 slave interface
- 3 Ethernet 10/100 Base T interface with TCP/IP
- Two USB master interfaces for connecting an external operation panel, keyboard, scanner or service key
- 5 Slot for CompactFlash Type I memory card

Digital I/O interface 25-pin SUB D socket

Each of the 24V inputs and outputs are electrically isolated

Inputs **Outputs** Label feed Warning if end of ribbon Repeat print run Warning if end of label Start printing Paper feed ON Pause Print start Label dispensed Error end of ribbon Error end of label Cancel re-set with memory Cancel re-set without memory Print data available Operating status Label in dispensing position Error printer

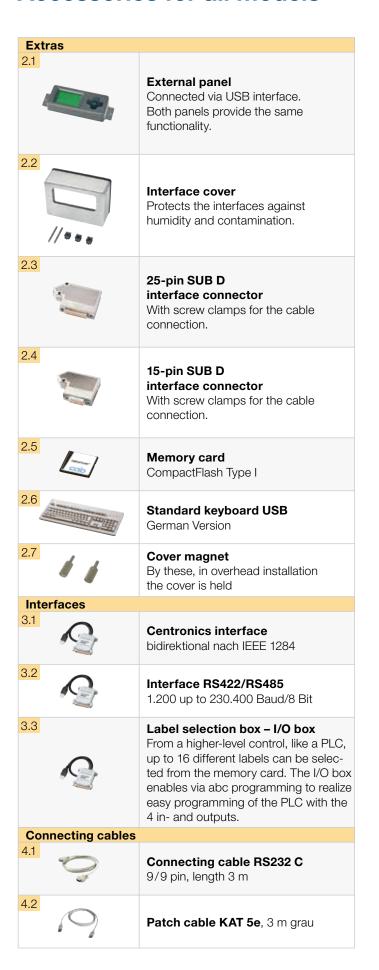
OEM – Digital I/O interface 15-pin SUB D socket

Each of the 5V inputs and outputs are electrically isolated

Inputs
Label feed
Repeat print run
Start printing
Cancel reset without memory

Outputs
Warning if end of ribbon
Paper feed ON
Error end of ribbon
Error end of label
Print data available
Label in dispensing position
Error printer

Accessories for all models





Device functionality and compliance with CE standards are only warranted by using the accessories provided or recommended by cab.

Software features of the print module

J H 100 O R S I1;0,0,68,70,100 T 10, 10,0,5,pt20;sample B 10,20,0,EAN-13,SC2,401234512345 G 8,3.5,0;R:30,9,0.3;0.3

Job start
Speed (100 mm/s)
Orientation rotated by 180°
Size label (100x68 mm, gap 2 mm)
Text object/font: Swiss bold, 20 pt
Barcode EAN 13, size SC 2
Graphic, box 30x9 mm,
Line weight 0.3 mm
Number of labels (in this example 1)

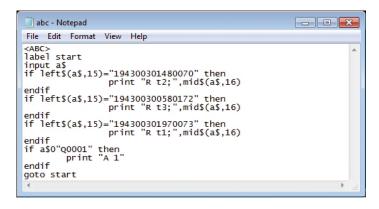
Direct programming with JScript

Every cab printer can be directly programmed with the JScript programming language. JScript is described in the programming manual. The label software cablabel S3 optimally supports the direct programming, but may also be generated with any text editor.



Replace files and integration in SAP R/3*)

In cooperation with SAP cab developed the so-called replace method to control cab printers quickly and easily from SAPScript using SAP R/3. Using this method the host computer only sends the JScript variable, respectively changed data to the printer. As a Silver Level partner in SAP's Printer Vendor Program, cab has access to SAP development environments for optimum printer support.



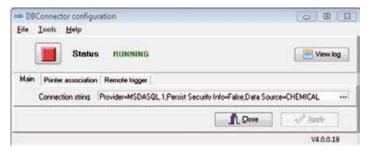
abc Basic Compiler

As an integrated element of the firmware, the abc Basic Compiler enables the printer to process data via Basic programming before it is sent for print editing. That way, you replace external printer languages or integrate data from other systems, e.g. a scale or PLC.



Printer monitoring with Intra- and Internet

Using standard programs such as the web browser or ftp clients, the integrated HTTP and ftp servers enable printer monitoring and configuration, firmware updates and memory card administration. Status, warning and error messages are sent to administrators or users via e-mails or SNMP datagrams via SNMP and SMTP clients. A time server is used to synchronize time and date.

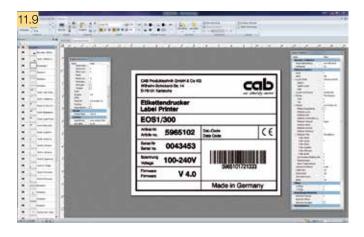


Database Connector

In stand-alone operation with additional network connection this program allows the printer to access data directly from a central ODBC or OLEDB compatible database and print it on a label. At the same time, data can be written back to the database during the printing process. Integrating the Database Connector in cablabel S3 allows to conveniently establish this database connection when designing a layout.

* SAP and all SAP logos are trademarks or registered trademarks of SAP SE in Germany and in several other countries.

Software tools - label software



cablabel S3 is available for the following Microsoft*) operating systems in 32 bit and 64 bit versions:

Windows Vista Windows Server 2008
Windows 7 Windows Server 2008 R2
Windows 8 Windows Server 2012
Windows 8.1 Windows Server 2012 R2
Windows 10 Windows Server 2016
Windows Server 2019

Terminal servers/Citrix are not supported.

cablabel S3 is a label software offering three functions:

- Designing
- Printing
- Monitoring

cablabel S3 does open up the full potential of cab devices in the design of your label. An extensive instruction set is available within the intuitive user interface, e.g. different date formats, mathematic or logic functions.

In doing so, cablabel S3 brings together all cab marking systems. First of all you design the label. You do not have to decide before printing whether you like the label to be dispensed on a label printer, a print and apply system or a laser marking system.

Do you like your marking system to print independently of a host system in stand-alone operation? cablabel S3 supports again: After having designed the label, the software supplies with all necessary data stored within the printer to be used in stand-alone operation.

cablabel S3 is of modular design and can be adapted to your requirements step by step: In order to support functions like native programming with JScript, elements like JScript viewer are embedded as plugin. The designer user interface and JScript code are synchronized in real-time. Special functions like Database Connector or barcode testers can be easily integrated.

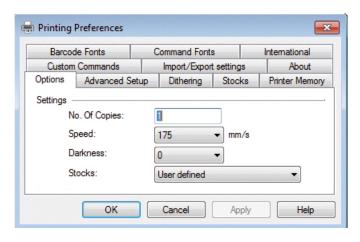
Software tools – monitoring



Administration Network Manager

To simultaneously control a number of printers across a network. It supports monitoring, configuration, firmware updates, memory card administration, file synchronization and PIN administration from one place.

Printer drivers



WHQL certified Windows printer drivers for

Windows Vista Windows Server 2008
Windows 7 Windows Server 2008 R2
Windows 8 Windows Server 2012
Windows 8.1 Windows Server 2012 R2
Windows 10 Windows Server 2016
Windows Server 2019

Our printer drivers are certified and signed by Microsoft. They ensure optimum stability on your Windows operating system. The drivers are included in in the scope of delivery.

*) Microsoft is a registered trademark of the Microsoft Corporation.



Stand-alone operation

Printing without PC

Stand-alone operation is the ability to print labels even if the printer is not connected to the host system.

The label layout is designed with the label software cablabel S3 or direct programming via PC.

Label formats, fonts, font-, text- and graphics data as well as data base contents are saved on the USB stick or read on the internal data memory IFFS.

Only variable data to be printed is sent to the printer via keyboard or scanner.



Easy maintenance

Printhead 203 / 300 / 600 dpi

The printhead can be exchanged and adjusted easily using the Allen key, which is ready to hand at the machine.



Removing the print roller

The print roller can be easily removed for cleaning or replacement.

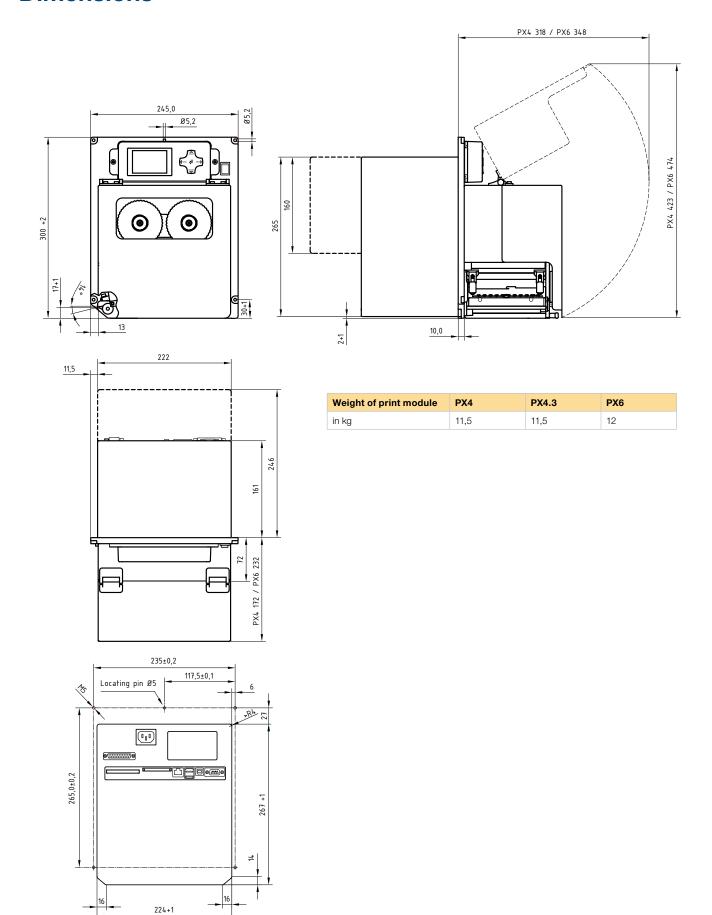
Delivery program for the PX print module

		Part no.	Hardware	dpi
	NOTES!	5956102.xxx	Print module PX4L /	200
		5956103.xxx	Print module PX4L /	300
		5956106.xxx 5956142.xxx	Print module PX4L / Print module PX4.3L /	600
		5956143.xxx	Print module PX4.3L/	
1.1				
		5956112.xxx 5956113.xxx	Print module PX4R / Print module PX4R /	200 300
		5956116.xxx	Print module PX4R /	600
		5956152.xxx 5956153.xxx	Print module PX4.3R Print module PX4.3R	
	0 .			
		5956235.xxx 5956123.xxx	Print module PX6L / Print module PX6L /	
1.2				
		5956236.xxx	Print module PX6R /	200
		5956133.xxx	Print module PX6R /	300
		Part no.	Hardware optionen	
		595.xxx.201	Digital I/O interface	
		595.xxx.202	Digital I/O interface Ribbon saver	
		595.xxx.203	OEM – Digital I/O inte	erface
		595.xxx.204	OEM – Digital I/O inte Ribbon saver	erface
		Scope of delive	ry	
PX print module as label print Power cable type E+F, length Connecting cables USB, len Operating manual de/en				
	DVD:	Power cable type Connecting cable	E+F, length 1.8 m, es USB, length 1.8 m	
	DVD:	Power cable type Connecting cable Operating manual Operating manual Configuration ma	e E+F, length 1.8 m, es USB, length 1.8 m al de/en al de/en/fr, unual de/en/fr,	
	DVD:	Power cable type Connecting cable Operating manual Operating manual Configuration ma Service manual of Spare parts list of Programming ma	e E+F, length 1.8 m, es USB, length 1.8 m al de/en al de/en/fr, inual de/en/fr, de/en, e/en, anual en,	anguages for
	DVD:	Power cable type Connecting cable Operating manual Operating manual Configuration ma Service manual of Spare parts list of Programming ma	e E+F, length 1.8 m, es USB, length 1.8 m al de/en al de/en/fr, inual de/en/fr, le/en, e/en, inual en, driver 32/64 bit in 19 la sta Server 2008	anguages for
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	DVD:	Power cable type Connecting cable Operating manual Operating manual Configuration manual Service manual of Spare parts list of Programming manual Windows Printer Windows Vis Windows 7 Windows 8 Windows 8 Windows 10	e E+F, length 1.8 m, ss USB, length 1.8 m al de/en al de/en/fr, inual de/en/fr, de/en, e/en, anual en, driver 32/64 bit in 19 la server 2008 Server 2008 R2 Server 2012 R2	ewer
	DVD:	Power cable type Connecting cable Operating manual Operating manual Configuration manual Service manual of Spare parts list of Programming manual Windows Printer Windows Vis Windows 7 Windows 8 Windows 8 Windows 10	e E+F, length 1.8 m, ss USB, length 1.8 m al de/en la de/en/fr, anual de/en/fr, le/en, anual en, driver 32/64 bit in 19 la sta Server 2008 Server 2012 Server 2012 R2 Server 2016 Server 2019 ablabel® S3 Lite and Vie	ewer
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	DVD:	Power cable type Connecting cable Operating manual Configuration masservice manual of Spare parts list of Programming material Windows Printer Windows Vis Windows 8 Windows 8 Windows 10 Label software contabase Connection Part no.	e E+F, length 1.8 m, ss USB, length 1.8 m al de/en la de/en/fr, inual de/en/fr, le/en, e/en, anual en, driver 32/64 bit in 19 la sta Server 2008 Server 2012 Server 2012 Server 2016 Server 2019 ablabel® S3 Lite and Victor en (without licenses Consumables Printhead 4 / 203 Printhead 4 / 300	ewer
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	DVD:	Power cable type Connecting cable Operating manual Configuration material Service manual of Spare parts list of Programming material Windows Printer Windows Vis Windows 8 Windows 8 Windows 8 Windows 10 Label software content of the Connection of	e E+F, length 1.8 m, ss USB, length 1.8 m al de/en al de/en/fr, inual de/en/fr, le/en, e/en, anual en, driver 32/64 bit in 19 la sta Server 2008 Server 2012 Server 2012 Server 2016 Server 2019 ablabel® S3 Lite and Victor en (without license Consumables Printhead 4 / 203 Printhead 4 / 300 Printhead 4.3 / 200 Printhead 4.3 / 300	ewer
	DVD:	Power cable type Connecting cable Operating manual Configuration masservice manual of Spare parts list of Programming masservice manual of Spare parts list of Programming masservice windows visual of Programming masservice windows 7 Windows 8 Windows 8 Windows 8 Windows 10 Label software contabase Connermal Part no. 5956381.001 5956382.001 5956384.001 5956384.001	e E+F, length 1.8 m, ss USB, length 1.8 m al de/en shall de/en/fr, inual de/en/fr, le/en, e/en, anual en, driver 32/64 bit in 19 lasta Server 2008 Server 2012 Server 2012 Server 2016 Server 2019 ablabel® S3 Lite and Victor en (without license Consumables Printhead 4 / 203 Printhead 4 / 300 Printhead 4 / 300 Printhead 4.3 / 300 Printhead 4.3 / 300 Printhead 6 / 200	ewer

		Part no.	Accessories
2.1		5954380	External operation panel
2.2		5965040	Interface cover
2.3		5917651	Interface connector 25-pin SUB D with screw clamps for cable connection
2.4		5917652	Interface connector 15-pin SUB D with screw clamps for cable connection
2.5		5561043	CompactFlash Type I memory card
2.6		5901626	Compact keyboard USB Cherry G84-4100
2.7	11	5972523	Cover magnet
		Part no.	Interfaces
3.1	9	5954200	Centronics interface
3.2		5954201	RS422 / RS485 interface
3.3		5948205	Label selection box – I/O box
		Part no.	Connecting cables
4.1		5550818	Connecting cable RS232 C 9/9 pin, length 3 m
4.2	0	5918008	Patch cable KAT 5e, 3 m gray
		Part no.	Software
		Freeware	Label software cablabel® S3 Lite (Download at cab.de/en)
11.9		5588001 5588100 5588101 5588150 5588151 5588152	cablabel® S3 Pro 1 WS cablabel® S3 Pro 5 WS cablabel® S3 Pro 10 WS cablabel® S3 Pro 1 additional licence cablabel® S3 Pro 4 additional licences cablabel® S3 Pro 9 additional licences
0		5588002 5588105 5588106 5588155 5588156 5588157	cablabel® S3 Print 1 WS cablabel® S3 Print 5 WS cablabel® S3 Print 10 WS cablabel® S3 Print 1 additional licence cablabel® S3 Print 4 additional licences cablabel® S3 Print 9 additional licences
		In preparation	cablabel® S3 Print Server
11.10		9008486	Programming manual english, printed copy

All information on scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change. The data provided in the catalog do not represent any warranty or guarantee. For current data see website www.cab.de/en/px

Dimensions



Product overview

Label printers MACH1, MACH2

in the lower price segment



Industrial device for print widths up to 57 mm



Label printers XD4T

for double-sided printing

Print modules PX

Label printers SQUIX 4 Label printers SQUIX 2

Industrial device for print widths



Label printers MACH 4S

where little space is available

up to 108 mm



Label printers XC

for two-color printing



Labels

made from more than 400 materials



to be integrated in labeling machines

Label dispensers HS, VS

for horizontal or vertical dispense



Labeling heads IXOR

to be integrated in labeling machines



Label printers EOS2

Desktop device for label rolls up to diameter 152 mm



Label printers SQUIX 6.3

Industrial device for print widths up to 168 mm



Print and apply systems HERMES Q

for automation



Ribbons

in wax, resin and resin/wax qualities



Marking lasers XENO 4

in 19" housings



Label printers EOS5

Desktop device for label rolls up to diameter 203 mm



Label printers A8+

Industrial device for print widths up to 216 mm



Print and apply systems Hermes C

for two-color printing and applying



Label software cablabel S3

Design, print, control



Laser marking systems

in desktop housings





Headquarters and fabrication in Germany

to International subsidiaries

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